

Index to Vol. XXVII.

The Authors' names are given just before the pages indicated, except what was written by the Editor, discussions, Queries, or matter selected from other periodicals.

Above all Shines the Sun (poem).....	Meredith, 283	Hughes, 474
Account with the bees, keeping.....	Marsh, 485	Watkins, 387, 414
Adaptation for the business.....	Doolittle, 86	766
Address to the honey-bees.....	Cullinan, 115	Edwards, 158
Adulterated honey and protection.....	Harmer, 158	Israel, 30—Wynn, 79
Adulteration. Heddon, 118—Smith, 416—Walker, 642		Styar, 131—Swezey, 256—Grundy, 344—Alexander, 385—Gayton, 409
Advice to beginners. Miller, 262—Heddon, 283—Pouder, 423		Muller, 763
After-swarming, prevention of, 56	De Witt, 738	Dow, 410
An idea worthy of consideration.....	Dewey, 546	Woodworth, 20
Ants, 679	Westphal, 43	Harrison, 12
Apairy destroyed.....	Smith, 505	Craig, 678—Peck, 737
Apairy, locating.....	Pouder, 454—Crisman, 739	Repleglo, 805
Apairy, managing for surplus honey.....	Massie, 541	Jardine, 130
Apairy, nestless in.....	Pouder, 584	834
Apiarist's paradise.....	Axtell, 891	Bees, carrying out brood.....
Apicultural associations.....	Grover, 390	827
Apicultural inventions.....	Root, 119—Loy, 191	Bees, cause of dying.....
Apicultural journalism.....	Newman, 125	Dziersson, 47
Apicultural Notes. Young, 16, 120, 192, 257, 354, 453, 545, 707, 828—Aten, 157, 384, 481, 605, 795	Clark, 542, 676	Doolittle, 50
Apicultural school in Germany.....	Roece, 382	Miller, 823
Apiculture, experiments in.....	614	Lincoln, 167
Apiculture in agricultural schools.....	Miller, 52	Miller, 634
Bee-cellar for winter.....	Andre, 25	Smith, 634
Bee-cells, temperature of.....	169	45
Bee-escape, Porter spring.....	Shuck, 771	Bees, one-eyed.....
Bee-escapes, 75	Miller, 78—Dibbern, 186	Cook, 730
Bee-feeder.....	Deadman, 507	Hyatt, 437
Bee-fever.....	Pouder, 114	Bees on shares, 667
Bee in a telephone.....	109	200
Bee-keeping a national industry.....	743	Bees, should they be taxed.....
Bee-keeping and farming.....	743	Bees, stung by hens.....
Bee-keeping, 224—Miller, 77—Bingham, 161—Smith, 162	Roece, 676	Dibbern, 519
Bee-keeping and poultry rearing.....	Sherman, 767	Bees, taking out of the cellar.....
Bee-keeping, discouragements of.....	Freeborn, 770	378
Bee-keeping, funny side of.....	Rambler, 11	Bees, trouble about.....
Bee-keeping, past and future.....	Kilgore, 486	Harrison, 478
Bee-keeping, popular errors regarding.....	Hatch, 643	Bees uniting in the cellar.....
Bee-keepers college.....	763	Handel, 231
Bee-keepers of ye olden time.....	Harrison, 78	Bees, why they cluster on leaving hives
CONVENTIONS—		
Brant (Ont.).....	Anguish, 22	Cook, 680
Bruce.....	Tolton, 453	Strawn, 635
Capital (Ia.).....	Yocom, 349	Birthday celebration.....
Eastern Iowa.....	Coverdale, 380	10
Erie County (N. Y.).....	Meatyard, 412	Box-hives and honey gathering.....
Haldimand (Ont.).....	Campbell, 220, 765	Aten, 518
Hamilton County (Ind.).....	Collins, 325	Broad, bare-headed.....
Illinois, 215, 278, 598—Dadant, 108—Miller, 108, 230, 374—Harrison, 150—Draper, 151—Yocom, 246—Heddon, 820—Stone, 325	Holtermann, 697	France, 680
Indiana.....	Robbins, 452	Miller, 696
Iowa.....		112
Ionia (Mich.).....		Brood, chilled and foul.....
Kansas.....		Hoffman, 680
Michigan.....		Brood-combs, keeping.....
Missouri.....		Brood-frames, space over.....
North American, 11, 219	Dorn, 622	Brood-nest, manipulating, 506
New York.....	Hoot, 45, 181	Brood-nest, spreading.....
North Carolina.....	Knickerbocker, 222, 284, 320	Bumble-bees as fertilizers.....
Northern Illinois.....	Griffith, 194	Burr-combs, how to prevent.....
Ohio.....	Fuller, 75	221
Ontario.....	Bennett, 418, 448, 476	CONVENTIONS—
Shenandoah Valley.....		187
Southwestern Wisconsin.....		Shaver, 666
Texas.....		Rice, 40, 508
Vermont.....		Jones, 546
Wisconsin.....		Douglas, 226
		Vance, 288, 502
Candied honey.....	Holtermann, 257	
Candied honey, liquefying.....		568
Caterpillars, not.....	Cook, 732	
Chaff hives for winter.....	Bayard, 26	
Clamp for standing-frame hives.....		
Gun, 196	Lodge, 293	
Clamps, live and frame.....		
Clipped queens, destruction of.....		374
Clipping queen's wings, 50, 382	Axtell, 583	
Lewis, 13		
Closed-end frames.....	Markham, 195	
Grover, 129	Taylor, 51	
Colonies for harvest, rousing.....	Woodard, 268	
Comb-foundation, advantages of.....	Dayton, 266	
Comb-foundation, freezing.....	Hutchinson, 768	
Comb-foundation, fastening in frames.....		43
Henderson, 104	Akin, 611	

Index to Vol. XXVII.

The Authors' names are given just before the pages indicated, except what was written by the Editor, discussions, Queries, or matter selected from other periodicals.

Above all Shines the Sun (poem).....	Meredith, 283	Hughes, 474
Account with the bees, keeping.....	Marsh, 485	Watkins, 387, 414
Adaptation for the business.....	Doolittle, 86	766
Address to the honey-bees.....	Cullinan, 115	Edwards, 158
Adulterated honey and protection.....	Harmer, 158	Israel, 30—Wynn, 79
Adulteration. Heddon, 118—Smith, 416—Walker, 642		Styar, 131—Swezey, 256—Grundy, 344—Alexander, 385—Gayton, 409
Advice to beginners. Miller, 262—Heddon, 283—Pouder, 423		Muller, 763
After-swarming, prevention of, 56	De Witt, 738	Dow, 410
An idea worthy of consideration.....	Dewey, 546	Woodworth, 20
Ants, 679	Westphal, 43	Harrison, 12
Apairy destroyed.....	Smith, 505	Craig, 678—Peck, 737
Apairy, locating.....	Pouder, 454—Crisman, 739	Repleglo, 805
Apairy, managing for surplus honey.....	Massie, 541	Jardine, 130
Apairy, nestless in.....	Pouder, 584	834
Apiarist's paradise.....	Axtell, 891	Bees, carrying out brood.....
Apicultural associations.....	Grover, 390	827
Apicultural inventions.....	Root, 119—Loy, 191	Bees, cause of dying.....
Apicultural journalism.....	Newman, 125	Dzierzon, 47
Apicultural Notes. Young, 16, 120, 192, 257, 354, 453, 545, 707, 828—Aten, 157, 384, 481, 605, 795	Clark, 542, 676	Doolittle, 50
Apicultural school in Germany.....	Roece, 382	Miller, 823
Apiculture, experiments in.....	614	Lincoln, 167
Apiculture in agricultural schools.....	Miller, 52	Miller, 614
Bee-cellars for winter.....	Andre, 25	Smith, 634
Bee-cellars, temperature of.....	169	45
Bee-escape, Porter spring.....	Snuck, 771	Bees, one-eyed.....
Bee-escapes, 75	Miller, 78—Dibbern, 186	Cook, 730
Bee-feeder.....	Deadman, 507	Hyatt, 437
Bee-fever.....	Pouder, 114	Bees on shares, 667
Bee in a telephone.....	109	200
Bee-keeping a national industry.....	743	Bees, should they be taxed.....
Bee-keeping and farming.....	743	Bees, stung by hens.....
Bee-keeping, 224—Miller, 77—Bingham, 161—Smith, 162	Roece, 676	Dibbern, 519
Bee-keeping and poultry rearing.....	Sherman, 767	Bees, taking out of the cellar.....
Bee-keeping, discouragements of.....	Freeborn, 770	378
Bee-keeping, funny side of.....	Rambler, 11	Bees, trouble about.....
Bee-keeping, past and future.....	Kilgore, 486	Harrison, 478
Bee-keeping, popular errors regarding.....	Hatch, 643	Bees uniting in the cellar.....
Bee-keepers college.....	763	Handel, 231
Bee-keepers of ye olden time.....	Harrison, 78	Bees, why they cluster on leaving hives
BEE-KEEPING IN—		Cook, 680
Asia Minor.....	Andre, 25	Bees up and doing (poem).....
California, 696	Rame, 439	682
Colorado, 110	Emery, 742	Biographical—James A. Green.....
Cuba, 10	Osburn, 679	Strawn, 635
England.....	596, 794	Birthday celebration.....
Iowa.....	Syphrit, 251	10
Missouri.....	598, 798	Box-hives and honey gathering.....
Oklahoma.....	Furber, 484	Aten, 518
Southern Colorado.....	Blair, 709	Broad, bare-headed.....
Southern Wisconsin.....	Guenther, 606	Holtermann, 697
Vermont.....	Douglas, 709	Brood, chilled and foul.....
Bee-Keepers' Union, 215, 326, 367, 664, 665—Heddon, 118—Shiver, 167—Harrison, 182—Root, 533—France, 571, 666—Hart, 279, 666—Boettel, 824		Brood-combs, keeping.....
Bee laws in Germany.....	45	Brood-frames, space over.....
BEE PASTURAGE—		Brood-nest, manipulating, 506
Alfalfa, 113—Carter, 261—Raney, 291—Aikin, 350—Sprague, 711	Warner, 713	Broad-nest, spreading.....
Aisike clover.....	248	Bumble-bees as fertilizers.....
Asters and golden-rod.....	Adams, 357—Latham, 420	Burr-combs, how to prevent.....
Basswood.....	375	221
Buckwheat.....	793	
Cleome, 69		
Clover, 698, 743	Roop, 378—Nydegger, 895	
Flax.....	645	
Horsemint.....	Douglas, 825	
Persimmon.....	Fisher, 773	
Pony trees.....	Ellingswood, 294—Mahin, 354—Keller, 388—Barclay, 540—Massie, 517	
Ragweed.....	Wilson, 713	
Rattan.....	377	
Youpon.....	Douglas, 835	
	Douglas, 835	
Bee-legislation.....	Hughes, 474	
Bee notes from California.....	Watkins, 387, 414	
Bee, Pund, 701		
Bee shed for winter repository.....	Edwards, 158	
Bees and fruit, 69	Israel, 30—Wynn, 79	
Bees, candy for.....	Styar, 131—Swezey, 256—Grundy, 344—Alexander, 385—Gayton, 409	
Bees and honey and farmers.....	Muller, 763	
Bees and poultry, 77	Dow, 410	
Bees as protectors.....	Woodworth, 20	
Bees, black, shiny.....	Harrison, 12	
Bees, carrying out brood.....	Craig, 678—Peck, 737	
Bees, cause of dying.....	Repleglo, 805	
Bees, cause of freezing.....	Jardine, 130	
Bees, cross.....	827	
Bees, dead.....	Dzierzon, 47	
Bees, disturb a picnic.....	Doolittle, 50	
Bees, facts about.....	Miller, 823	
Bees, injuring flowers.....	Lincoln, 167	
Bees in the greenhouse, 42	Miller, 225	
Bees getting started.....	Miller, 225	
Bees, larger worker.....	Miller, 225	
Bees, manuring.....	Miller, 225	
Bees, new varie.....	Miller, 225	
Bees, one-eyed.....	584	
Bees on shares, 667	Cook, 730	
Bees refuse to be united.....	Hyatt, 437	
Bees, should they be taxed.....	Garrett, 669	
Bees, stinging hens.....	Backus, 356	
Bees, taking out of the cellar.....	Dibbern, 519	
Bees, to keep from watering troughs.....	378	
Bees, trouble about.....	Greeley, 633	
Bees uniting in the cellar.....	Harrison, 478	
Bees, why they cluster on leaving hives	Handel, 231	
Bees up and doing (poem).....	Strawn, 635	
Biographical—James A. Green.....		
Birthday celebration.....		
Box-hives and honey gathering.....		
Broad, bare-headed.....		
Broad, chilled and foul.....		
Broad, chilled, not foul.....		
Broad-combs, keeping.....		
Broad-frames, space over.....		
Broad-nest, manipulating, 506		
Broad-nest, spreading.....		
Bumble-bees as fertilizers.....		
Burr-combs, how to prevent.....		
CONVENTIONS—		
Brant (Ont.).....	Anguish, 22	
Bruce.....	Tolton, 453	
Capital (Illa.).....	Yocom, 349	
Eastern Iowa.....	Coverdale, 380	
Erie County (N. Y.).....	Meatyard, 412	
Haldimand (Ont.).....	Campbell, 230, 765	
Hamilton County (Ind.).....	Collins, 325	
Illinois, 215, 278, 598—Dadant, 108—Miller, 108, 230, 374—Harrison, 150—Draper, 151—Yocom, 246—Heddon, 820—Stone, 325—Robbins, 452		
Iowans.....		315
Ionia (Mich.).....		832
Kansas.....	Smith, 708	
Michigan.....	Wayman, 264	
Missouri.....	Hilton, 80	
North American, 11, 213	Dorn, Bissell, 699	
New York.....	Hoot, 45, 181	
North Carolina.....	Knickerbocker, 222, 284, 320	
Northern Illinois.....	Griffith, 194	
Ohio.....	Fuller, 75	
Ontario.....	Bennett, 418, 448, 476	
Shenandoah Valley.....	187	
Southwestern Wisconsin.....	Shaver, 666	
Texas.....	Rice, 40, 508	
Vermont.....	Jones, 546	
Wisconsin.....	Douglas, 226	
	Vance, 288, 502	
Candid honey.....	Holtermann, 257	
Candied honey, liquefying.....	568	
Caterpillars, not.....	Cook, 732	
Chaff hives for winter.....	Bayard, 26	
Clamp for standing-frame hives.....		
Gun, 196	Lodge, 293	
Clamps, live and frame.....		
Clipped queens, destruction of.....	Gun, 374	
Clipping queen's wings, 50, 382	Axtell, 583	
Lewis, 13		
Closed-end frames.....	Markham, 195	
Grover, 129	Taylor, 51	
Colonies for harvest, rousing.....	Woodard, 268	
Comb-foundation, advantages of.....	Dayton, 266	
Comb-foundation, freezing.....		
Comb-foundation, fastening in frames.....	Henderson, 104	
	Aikin, 611	

Comb-foundation, it pays to use.....	Jeffrey, 408	Miller, 225	
Comb-honey, not artificial.....	Jeffrey, 49	Dayton, 768	
Comb-honey, out-door wintering.....	Kirkpatrick, 544	8	
Comb-honey, surplus supers for.....	46	190	
Comb-honey, for.....	72	Root, 184	
Comb-honey, fermentation of.....	185	Powers, 194	
Comb-honey, sections for.....	381	McKnight, 254	
Comb-honey vs. extracted.....	Gould, 510	West, 647	
Combs built on the limb of a tree.....	680	408	
Combs, care of empty.....	Stewart, 678	Demand, 314	
Combs for market.....	378	Fisher, 197	
Conventions, how to make successful.....	Baldwin, 797	Gridley, 516	
Covering for frames.....	218	Conner, 246	
Dead-air space.....	Nut, 246—Doolittle, 519	Harrison, 76	
Distance that bees go for nectar.....	679	McKnight, 190	
Doing as other people say.....	Scott, 255	Pratt, 602	
Do not give your honey away.....	Baldridge, 340	769	
Echoes.....	8	Akin, 285	
Economy in bee-keeping, 249.....	Brantigan, 671	794	
Educate the children correctly.....	Bugbee, 350	107	
Entering hive.....	Pratt, 168	Honey vinegar, method of making.....	834
Essays at conventions.....	Miller, 18—Secor, 115	Hachenberg, 510	
Excellence is cheapness.....	Cook, 583	Horticulturists and bee-keepers.....	232
Excluders for comb and extracted-honey.....	Martin, 317	42	
Exhibits at fairs, 70, 367.....	Coppin, 283—Ickes, 456	Incorporation.....	6
Experience of a novice.....	Junkin, 231	Increase, 805.....	Pratt, 568—Hutchinson, 708
Extracted-honey, production of.....	Griffith, 163	Incubating poultry eggs.....	Goldsborough, 452
Extracting in cold weather.....	114	Insuring bees.....	Asby, 28—Langdon, 57
Fall rains and the honey crop.....	Repligote, 228	Invocation to spring (poem).....	Robinson, 600
Feed the bees.....	Miller, 286	Importation of Queens, 762.....	Jones, 160
Feeder, cheap.....	Hill, 278	Italian bees, degenerate.....	Miller, 113
Feeder, honey-comb.....	Graham, 516	Italian drones, purity of.....	446
Feeding bees, 44, 688—McKinnon, 14—Harrison, 168—Stewart, 350—Axtell, 518	Buss, 549	Italianating an apiary.....	Duncan, 190—Gates, 229
Fertilization of plants.....	113	Mitchell, 203—Killer, 357	
Flowers, bees visiting different.....	Miller, 281	Italizing and dividing.....	Petty, 515
Food, larval.....	Hatch, 643	Italians, 5-banded.....	Hildenbrandt, 507
Forests, destruction of.....	Cook, 834	Items of interest from Europe.....	Roose, 412
Foul-brood—Chalmers, 18—Pringle, 26—Pratt, 69—Robinson, 73, 374, 577—Taylor, 116—Jones, 118—Koepken, 156—Cornell, 219, 558—Tinker, 314—McEvoy, 350—Barclay, 450—Meeker, 455—Teft, 488—Smith, 531—Adams, 613—Cook, 613—Taylor, 607, 832	Dewey, 765	Keep up the price of honey.....	Heddon, 508
Foul-brood spread by comb-foundation.....	Cornell, 471, 803—Root, 513, 803—Jones, 566—Danher, 712	Kerosene for propolis.....	45
Foul-brood trap, shallow.....	442	Killed to save honey.....	Wilson, 677
Frames, fixed or hanging.....	Dayton, 760	La grippe, honey for.....	Loun, 344
Frames for a migratory apiary.....	766	Level, how to make a cheap.....	Smith, 155
Frames, how to handle.....	Hatch, 640	Locating queens after dividing colonies.....	
Frames, Langstroth.....	Miner, 547	Doolittle.....	15
Freak of nature, strange.....	Pritchard, 132	Life is work (poem).....	Lyster, 613
Freight classification.....	Calvert, 640	List of bee-keepers' associations.....	825
Frost, damage by.....	631	Little here and there (poem).....	Smith, 155
General Sherman loved honey.....	551	Markings of bees, improving.....	Faylor, 570
German bee-periodicals, review of.....	Dennier, 23	May flowers (poem).....	Burnett, 638
Getting used to a thing.....	Root, 674	Mating time.....	Akin, 124
Glad summer is near (poem).....	599	Memory in bees.....	44
Gloves for handling bees.....	601	Mice in the apiary.....	57
Gloves for adhering to tin.....	Brubaker, 551	Microbes.....	Halsted, 536
Good air and honey.....	10	Mildew and dampness.....	Wheeloock, 549
Good-bye, old year (poem).....	10	Mistakes often made.....	775
Greatest value and least cost.....	Lucy, 386	Mixing honey.....	114
Haunts of bees—bee-trees.....	Harrison, 51	More sugar for the money.....	Salisbury, 583
Hive, Bay state.....	Blankin, 25	Mother bee.....	Secor, 413
Hive covers, cloth instead of tin for.....	550	Moth miller and foul-brood.....	Leech, 382
Hive covers, to prevent leaking.....	731	Moths, freezing to destroy.....	615
Hive and drone-trap.....	Petrie, 635, 700	Moving bees, 36—Tubbs, 26—Downing, 193—Akin, 123	Dibbern, 512
Hives and other fixtures.....	Bunch, 22	Neck-yoke for carrying hives.....	McFarland, 734
Hives, color for.....	113	Nectar—secretion.....	Akin, 285—Robinson, 645
Hives, dovetailed.....	249	Night work in the hive.....	
Hives, eight or ten-frame.....	475	OBITUARY—	
Hives, facts about, large or small.....	Todd, 251	Bull, Theodore S.....	0
Hives, for all purposes.....	Watkins, 14	Hathaway, Dr. Stephen.....	566
Hives, for wintering.....	King, 646	Williams, Morris A.....	565
Hives, modified Langstroth.....	Cooley, 292	Opening hives before spring.....	282
Hives, protection of single-walled.....	Ashcraft, 512	Outside case, advantages of.....	Pratt, 580
Hives, Quinby closed-end.....	Weiler, 573	Packages for extracted-honey.....	
Hives, single-walled, and foul-brood.....	Backenroth, 262	Wright, 165.....	Lamon, 806
Hives, ten-frame, for profit.....	Wolcott, 193	Packing, absorbent.....	Marsh, 485—Roose, 676
Hives, ten-frame, for profit.....	Ponder, 808	Packing, spring and winter.....	Barrows, 295
Honey, aroma and color of.....	Doolittle, 796, 807	Painting hives, 474.....	Collins, 519
Honey-bee—prize essays.....	Harrison, 21, 606	Paris green on potables.....	Rice, 283
Honey cans, tin.....	42, 406, 834—Hasty, 603	Passion狂热.....	Heddon, 187
Honey, comb and extracted.....	109	Pestilence rights.....	Aspinwall, 224—Cook, 295
Honey crop, cause of failure of.....	Griffith, 707	Perfume and honey.....	Doolittle, 188
Harrison, 10.....	Muth, 260	Philosopher Joe.....	232
		Plants, trees and honey.....	Harrison, 550
		Pollen-gathering drones (?).....	46
		Pollen gathering by queenless colonies.....	Draper, 379, 480
		Pollen bearers.....	Doolittle, 411—Bugbee, 733
		Pointers about bees.....	Bunch, 291
		Poison on fruit-bloom.....	473
		Preconceived notions.....	734

Premiums for honey at fairs, 674	Whitecomb, 820	Ventilation, Englefield, 121—Hammerschmidt, 131—Harrison, 478—Straight, 547—Doolittle, 586
Prizes for honey, Hunt, Hutchinson, McKnight, 152	Harrison, 790	
Procrastination, 485		
Progressive knowledge, 485		
Protect the bees, Axell, 517		
Pure-food bill, 217	Robertson, 293	
Queen-bee, facts about, Miller, 518		
Queen-bees, beautiful, Pratt, 562		
Queen-cage, 505		
Queen-cell protectors, Doolittle, 589—West, 702, 734		
Queen-cells, handling, Bunch, 528		
Queen-excluders, Tinker, 578, 782		
Queen-excluder vs. queen-includer, Stickle, 484		
Queen—only a mother, 644	Miller, 518	
Queen-restrictor, Dayton, 586—Ashworth, 670		
Queen, where to find, 313		
Queens, best "all purpose", Hutchinson, 122		
Queens, caging the, 537		
Queens, drone-laying, 76, 690		
Queens, duty on imported, Cook, 681, 685, 729—Standwood, 632—Whittle, 633	Barrow, 603	
Queens, fertilization of, Shaw, 164—Guenther, 773		
Queens, rearing, Heiss, 658—Fisher, 571—Dayton, 688	Tinker, 638	
Queens laying young, Pratt, 600—Stainer, 740		
Queens, peculiarities of, Scott, 252		
Queenless colonies, Kellogg, 507—Marshall, 612		
Queenlessness, Miller, 260—Marsh, 485		
Hives of bees, 10	Mason, 152	743
Hives, convention	Wilcox, 218—Smith, 479	
Hemimiscence	Harrison, 477	
Removing bees from cellars	Herrick, 502	
Result of united action	Larcom, 408	
Ring, happy bees (poem)	Tennyson, 7	
Ring out, wild bees (poem)		
Rivalry among bees		199
Robber bees, 698, 775	Kelly, 511—Miller, 644	
Salt for bees	Judkins, 326	
Season of 1890	Latham, 253	
Section cases	Hubbard, 280—Beeson, 792	381
Section-press	Eaglesfield, 265—Trego, 320—Ward, 358	
Sections, dampeening	Aldrich, 380	
Sections, folding	Miller, 543	
Sections, putting on hives	Aikin, 110	
Sections, taking out	Dibbern, 606	
Self-hiving arrangement	Miller, 829	
White, 294	Coverdale, 294	
Separators, when and how to use	Aikin, 576	
Sex determined by nutrition		406
Sheep and bee-tree		153
Smoke from passing trains		199
Song, an old, with a new tune (poem)	Allen, 346	
Spraying trees, 311	Andrews, 153, 438—Eastwood, 197—Sandford, 480—Dibbern, 503—Miller, 514—Ashby, 583—Cook, 614, 607—Lewis, 701	
Spring dwindling, cause and cure	McCarthy, 823	
Spring management of bees	Pike, 705	
Spring protection for bees	Wolcott, 483	
Spring work in the apiary	Pringle, 410	
Starving in the midst of plenty	Harrison, 679	
Statistics, advantages of	Knickerbocker, 256	
Statistics, Missouri		280
Stung in the eye		728
Sugar, honey, and the tariff	Thurber, 216	
Sugar, inaccuracy on honey		375
Super, getting bees out of	Roose, 159	
Superstitions about bees		667
Surplus, do honey-boards affect	Taylor, 516	
Swarm-catcher		
Swarm-hive	Ailey, 478—Sherman, 634	
Swarming, 608	Tyrell, 162—Burr, 380—Odendahl, 600—Miller, 612—Williams, 672—Aikin, 675—Hill, 729—Smith, 733—Harrison, 739, 833—Tinker	
Taxation of bees in Iowa	Pearson, 572	806
Tearing out brood	Southard, 455	
Thinking, do some for yourself	Doolittle, 250	
Thunder storms and hot weather	Bambier, 116	
Top-bar, divided	Taylor, 192	
Top-bar and burr-combs		75
Trade-mark, Hunt, 104—Blanken, 198—Mallory, 198—Latham, 221—Burr, 229—Fish, 263—Harmer, 263—Demaree, 315—Heddon, 310—Eastwood, 380—Wadham, 390—Kirk, 391—Miller, 414—Rice, 451	France, 614	
Transferring bees, 472, 806—Getaz, 986—Hallett & Son, 587—Heddon, 537, 762	Highbarger, 545	
Uniting prime and after-swarms		774
Uncle Mose and the bees	Dobbins, 395	
Water for bees, 743	Smith, 11—Millard, 89—Wiggins, 199—Dobson, 262	888
Wax, Chinese insect		775
Wax, detecting adulteration in		710
Wax-sections, bottom-board, see	Miller, 614	
Weak secretions	France, 647	
Weak colonies, strengthening	Tyrell, 114	
Weather in England and Spain		281
Weeds in the apiary, noxious		345
Weighing bees	Perce, 27	
Weight, loss of in winter	Barrow, 229	
White clover honey	Draper, 124	
Wind-flower	Cook, 646	
Winter enjoyments (poem)		314
Winter packing		189
Winter quarters, 400		
Winter stores	Farquharson, 359	
Wintering bees, 381	Heddon, 47—Hawkins, 123	
Wintering bees in the cellar	Clapp, 422—Cassiday, 191	
Wintering bees, cellar vs. out-door, 221	Mason, 162	
Wintering bees on uncapped stores	Smith, 127	
Wintering successfully out-doors	Larabee, 53, 736	
Work and play (poem)		552
Workers for the harvest	Hutchinson, 387	
Work-shop and bee-room	Pratt, 318	
Wintry beauty (poem)	Clarke, 9	
Worm, clover-hay	Cook, 487	
World's Columbian Fair, 8, 342, 438, 471, 824—Clarke, 54—Mason, 155—Theilmann, 227—Dadant, 376	Dibbern, 505	
Zinc, perforated	Tinker, 735, 762	

CORRESPONDENTS.

Cady, J. E. 360
 Calder, J. H. 678
 Caldwell, J. V. 391
 Calvert, J. T. 437, 640
 Camblin, A. S. 420
 Campbell, E. C. 221, 705
 Carpenter, Jas. 55
 Carter, J. W. 261
 Carter, P. P. 389
 Cartmell, G. B. 712
 Cary, Phoebe, 26
 Cashman, J. M. 423
 Cassaday, D. B. 191, 356
 Chalmers, D. 18
 Charles, W. 262
 Church, S. J. & Son, 130
 Clapp, E. F. 423, 740
 Clark, Edw. 542, 676
 Clarke, Rev. W. F. 9, 54
 Collins, E. H. 325, 519
 Cook, A. J. 205, 434, 487,
 584, 600, 615, 631, 646,
 653, 660, 667, 725, 730,
 761, 834
 Cook, Geo. W. 391, 762
 Cooke, E. 25, 129
 Cooley, J. T. 292
 Coppin, Aaron, 204, 436
 Cornell, S. 219, 447, 538,
 591
 Couselman, F. 421
 Coverdale, F. 71, 129, 295,
 390, 391
 Craig, Wm. 678
 Cram, M. F. 712
 Crisman, Thos. 739
 Culinan, W. J. 115
 Cutler, M. 228
 Dadant, Charles 471, 808
 Dadant, C. P. 108, 374
 Danher, D. D. 422, 713
 Davenport, W. C. 196
 Davis, R. T. 46, 293
 Dayton, C. W. 286, 309,
 606, 712, 768, 799
 Denner, J. 23
 Demaree, G. W. 314
 Dewar, John, 55
 Dewey, F. H. 545, 705
 De Witt, M. H. 738
 Dibber, C. H. 16, 197, 217,
 503, 505, 512, 520, 508
 Dillon, Josiah, 804
 Dobbin, M. 385
 Doolittle, J. A. 293
 Doolittle, G. M. 15, 50, 89,
 168, 250, 411, 519, 550,
 560, 569, 588, 790, 834
 Dorn, Blaser, W. S. 669
 Doty, J. 711
 Douglas, M. A. 217, 760
 Douglas, W. S. 263
 Douglass, Willie, 835
 Dow, F. H. 410
 Downing, A. C. 193
 Dowse, T. S. 197
 Draper, A. N. 124, 151, 379,
 491, 606
 Duff, A. H. 113
 Duncan, A. J. 130
 Dunlap, J. B. 807
 Dzierzon, Rev. Dr. John,
 47
 Eggleston, E. C. 121, 263,
 423
 Eames, Ninette, 439
 Eastwood, L. 197, 399
 Edwards, J. H. M. 158
 Edwards, T. M. 613
 Egger, C. 25
 Ehret, Jos. 517
 Elliott, N. A. 328
 Ellingwood, A. D. 166, 204
 Emery, D. R. 742
 Enke, Wm. 127
 Farquharson, D. R. 359
 Fawcett, H. P. 231
 Taylor, W. P. 51, 167, 192,
 346, 570, 607, 832
 Ferstel, Jno. 812
 Fish, S. T. 198, 264
 Fisher, A. J. 328
 Fisher, C. L. 571
 Fisher, J. D. A. 14, 198,
 204, 422, 677, 775, 807
 Flint, Jos. L. 455

Flory, Samuel, 127
 Forbes, V. N. 128
 Forbes, W. E. 807
 Forester, Thos. 827
 France, E. 571, 614, 647,
 666, 680
 Freeborn, S. L. 770
 Fuller, D. A. 75, 78
 Furber, H. B. 434
 Garrett, E. R. 670
 Gates, Jno. F. 741
 Gayton, M. 410
 Geescke, O. A. 582
 George, Milo, 245, 592
 Gerrish, C. W. 516
 Getaz, Adrian, 230, 366
 Glass, L. J. 645
 Goldsborough, A. T. 452
 Goodell, C. A. 774
 Goodino, O. R. 268, 678
 Gonid, Wm. R. 510
 Graham, B. E. 516
 Greeley, Elbert, 57, 633
 Green, Jas. A. 635
 Gridley, F. 328
 Griffith, C. 516
 Griffith, C. B. 163, 194, 707
 Griswold, H. C. H. 44
 Grover, E. G. 390
 Gross, Wm. 129
 Grundy, Fred, 344
 Guenther, J. H. 605, 774
 Gunn, Geo. T. 196, 374, 489
 Guth, Chas. 774
 Hachenberg, G. P. 510
 Hasted, Dr. B. D. 536
 Hambaugh, J. M. 504, 604
 Hamer, J. 456
 Hammerschmidt, L. 131
 Handel, J. 231
 Harrison, Mrs. L. 10, 12,
 51, 76, 78, 118, 150, 167,
 182, 477, 504, 550, 680,
 730, 739, 743, 775, 804,
 833
 Hart, F. M. 279, 606
 Haskin, S. D. 55, 277, 805
 Harmer, W. 158, 263
 Hasty, E. E. 603
 Hatch, C. A. 639, 643, 742
 Hawkins, O. R. 123
 Hawser, John L. 56
 Head, Ernest, 729
 Heater, M. J. N. 773
 Heddon, James, 47, 283,
 319, 509, 737
 Heintz, Theo. Jr. 333
 Heivly, Wm. O. 366
 Hemphill, C. T. 420
 Hasty, E. E. 603
 Henderson, R. H. 327
 Henderson, T. 164
 Herrick, S. H. 502
 Herrick, T. M. 293
 Highbarger, L. 545
 Hildreth Bros. & Segelken
 107
 Hill, A. G. 278
 Hill, Jno. Q. 548
 Hilton, Geo. E. 80, 310, 821
 Hines, T. O. 612, 645
 Hoffman, J. 680
 Hollister, N. M. 548
 Holmberg, J. A. 56, 607
 282, 287
 Hosnel, Wm. 358
 Hoyle, A. M. 711
 Hughes, J. S. 230, 474
 Hunt, M. H. 108, 152, 471,
 803
 Hurley, T. S. 421
 Hutchinson, W. Z. 122,
 152, 552, 768, 822
 Hyatt, L. 518
 Ickes, S. J. 456
 Ilams, Byron, 481, 738
 Imay, D. M. 231
 Israel, I. P. 39
 Jardine, Jas. 131
 Jeffrey, H. L. 43
 Johnson, F. N. 327
 Jones, A. H. 546
 Jones, D. A. 166, 566
 Judkins, Mark D. 327
 Junkins, S. D. 231
 Kaufman, D. 128
 Kelley, T. C. 358, 388, 511
 Kellogg, Guy, 359
 Kerr, Geo. A. 25
 Kitcham, D. M. 455
 Kitlow, A. L. 358
 Kilgore, S. G. 486
 King, John, 646
 Kinney, F. A. 807
 Kirk, E. L. 391
 Kirkpatrick, Geo. H. 222,
 259, 284, 320
 Koeppen, August, 156
 Kulp, W. W. 421
 Lacy, F. D. 191, 286, 712
 Lamkin, A. W. 646
 Lamont, J. A. 806
 Langstroth, L. L. 407, 460
 Larcom, Lucy, 408
 Larrabee, J. H. 53, 736
 Latham, A. 300, 421
 Latham, F. J. 221, 253
 Lattner, P. 57
 Leech, A. 392
 Linton, L. C. 167
 Lindsey, A. W. 262
 Long, Geo. S. 855
 Loser, B. 802
 Lyman, Ira N. 182
 Lyster, Fred, 613
 Mac'Onough, F. 421
 Mahin, Rev. M. 354
 Mallory, S. H. 198
 Man, A. B. 229
 Mansperger, H. 612
 Markham, N. D. 195
 Marsh, J. A. 495
 Marshall, W. L. 613
 Martin, J. H. 317
 Martin, W. H. 126
 Mason, A. B. 152, 155, 162
 Massie, T. K. 517, 541
 May, J. E. 422
 Meatyard, Robert, 412
 Meeker, E. F. 455
 Meeks, R. 487
 Meredith, M. 289
 Merriam, D. A. 792
 Millard, D. 49
 Miller, Dr. C. C. 18, 52, 77,
 78, 108, 114, 225, 230, 246,
 250, 255, 315, 514, 518,
 543, 555, 614, 644, 679,
 695, 698, 828, 829
 Miller, G. S. 280
 Miller, G. O. 740
 Miller, M. 262, 645
 Miller, O. P. 582, 612
 Miner, O. P. 547
 Mitchell, R. H. C. 167
 Mitchell, J. M. 293
 Moore, J. 420, 741, 807
 Moore, P. M. 378
 Morgan, R. A. 294
 Morrison, Mrs. G. W. 549
 Moss, S. H. 55
 Mueller, C. W. 763
 Muth, C. F. 290
 McCarthy, Prof. Gerald,
 823
 McCarthy, J. W. 186
 McDonald, F. H. 294
 McEvoy, Wm. 350
 McFarland, F. H. 734
 McFartride, P. W. 57
 McIntyre, J. F. 88
 McMillion, C. F. 14, 487
 McKnight, R. 152, 190,
 225, 254
 McLain, Prof. N. W. 504
 McLean, D. 730
 Nebel & Son, John, 729
 Niven, Geo. W. 167
 Nutt, W. C. 197, 388
 Nydegger, J. 835
 Nyhuise, A. 388
 Odendahl, W. P. 517, 609
 Osburn, A. W. 679
 Osterhert, J. H. 357
 Oswalt, J. 264
 Paddock, Senator, 217
 Partridge, H. E. 356
 Patterson, H. 548
 Patterson, W. J. 90
 Paulsen, J. 548
 Pearce, J. A. 127
 Pearson, Wm. 549, 572
 Peck, B. W. 737
 Peterson, A. J. C. 713
 Petrie, N. C. 665, 700
 Petty, J. 515
 Pike, J. Lowell, 703
 Potts, J. 129
 Powelson, Leo, 389
 Powers, E. W. 194
 Pouder, Walter S. 12, 114,
 169, 423, 454, 554, 808
 Pratt, E. L. 69, 89, 110,
 169, 318, 552, 580, 583,
 612, 669
 Prichard, J. E. 132, 613
 Pringle, Allen, 26, 410
 Pryal, W. A. 103
 Rader, Math. 154
 Ramaze, J. B. 678
 Rambler (J. H. Martin)
 11, 116
 Raney, S. 291
 Rebholz, M. 390
 Reed, L. 712
 Reiter, F. R. 202
 Replogle, G. B. 228, 606
 Reeves, Ira, 740
 Rice, Ben, E. 40, 383, 451,
 508, 517
 Richmond, Miss Kate, 21,
 211
 Robbins, G. F. 452
 Robertson, R. G. 293
 Robie, J. R. 107
 Robins, C. J. 78, 347,
 422, 577, 600, 646
 Robinson, G. 486
 Robson, Wm. 328
 Roby, Mattie, 328, 486
 Roby, T. P. 773
 Rockefeller, E. J. 420
 Rose, Rev. Stephen, 159,
 383, 400, 411, 454, 482,
 487, 676
 Rohrer, John H. 645
 Roop, M. S. 263
 Root, A. I. 164
 Root, E. R. 39, 40, 45, 110,
 513, 533, 674, 704, 772,
 801
 Rosenberg, Geo. W. 488
 Rouse, H. L. 129
 Rouse, J. W. 280
 Rushton, H. 455
 Sanders, J. W. 263
 Salisbury, F. A. 583
 Sanford, E. 489
 Sanger, A. F. 129
 Schaeffle, E. H. 409
 Scheuring, Paul, 89
 Schmid, Dr. R. W. 24
 Schmid, R. R. 198
 Schreier, C. 713
 Scott, F. 252, 355
 Secor, Eugene, 115, 413,
 522
 Seeley, H. M. 678
 Shaffer, J. 807
 Shaver, J. E. 326, 666
 Shaw, Noble, 165
 Sherman, Mrs. S. E. 634,
 767
 Shiver, G. R. 167
 Showell, E. M. 108
 Shuck, S. A. 80, 771
 Silson, L. D. 38
 Smith, C. W. 634
 Smith, Edwin E. 39, 108,
 357, 740
 Smith, F. 644
 Smith, Geo. 190
 Smith, H. 416, 708, 760, 835
 Smith, J. G. 505
 Smith, J. P. 56, 128, 369,
 582, 739, 774
 Smith, S. B. 162, 479, 488
 Snyder, M. S. 263
 Sonders, J. 644
 Southard, W. B. 455
 Spaulding, O. L. 824
 Sprague, S. W. 711
 Staininger, N. 740
 Stanclift, J. B. 455

Stanley, Mrs. M. N. 648	Vandenburg, P. E. 55, 248
Stanwood, H. D. 632	Viallon, P. L. 341
Stevens, F. 391	Visson, H. B. 130
Stevens, O. H. 390	
Stewart, D. 350, 678	Wadham, A. H. 390
Stewart, H. 711	Wagar, D. I. 167
Stewart, J. C. 665	Walker, Byron, 642, 741, 760
Stickle, A. C. 484	Wallace, P. D. 487
Stiles, G. W. 741	Ward, John A. 358
Stockwell, Geo. A. 43	Warner, O. W. 128, 713
Stone, Wm. 17	Watkins, Mark D. J. 14-
Stone, J. A. 352	Watkins, S. L. 387, 414
Stone, W. E. 516	Wayman, L. 132, 265
Straight, J. M. 548	Webster, D. G. 127
Stratton, S. 294	Webster, W. A. 99
Styan, Wm. 410	Weed, Clarence M. 321
Styer, Evan R. 132	Webb, E. B. 322
Summers, Joe 264	Weissenberg, D. 678
Sundermann, John, 14	Weller, Geo. E. 373, 781
Sweeney, O. H. 258	Werner, L. 359
Syphrit, J. B. 251	West, E. E. 647
Taylor, B. 517	West, N. D. 702, 734
Taylor, R. L. 116, 743	Westphal, R. 43
Teft, J. W. 320, 498, 547, 713	Wheecock, F. 549
Tennyson, Alfred, 7	Wheeler, Scott, 196
Teter, J. G. 805	Whitcomb, E. 830
Thaxter, Celia, 37	White, Wm. M. 294
Theilmann, C. 227	Whitmer, Daniel, 25
Thurber, F. B. 218	Whitting, Tela, C. 24
Tibbets, G. F. 516	Whittier, John G. 69
Tickemyre, H. B. 666, 773	Wiggins, M. G. 199
Timpe, J. T. 774	Willard, C. W. 515
Tinker, Dr. G. L. 55, 314, 578, 638, 735, 762, 792, 798, 827	Williams, R. B. 673
Tobey, R. A. 742	Willits, E. 633
Todd, J. A. 251	Wilson, J. T. 677
Telebrotten, R. M. 774	Wilson, S. 612, 713
Tolton, A. 453	Winkler, C. J. 127
Townsend, B. 130	Wolcott, W. C. 25, 103, 483
Tregos, S. F. 326, 358	Wood, Ira J. 422
Tubbs, A. R. 28	Woodward, W. M. 258
Tuttle, W. H. 741	Woodworth, Mrs. 20
Tyrell, A. C. 114, 168	Wright, C. A. 582
Urban, O. J. E. 774	Wright, H. R. 165
Vance, Dr. J. W. 288, 507, 750	Wright, N. W. 835
	Wyss, Daniel, 79

CLUBBING LIST.

We Club the *American Bee Journal* for a year, with any of the following papers or books, at the prices quoted in the LAST column. The regular price of both is given in the first column. One year's subscription for the *American Bee Journal* must be sent with each order for another paper or book:

	Price of both.	Club.
The American Bee Journal	\$1.00.....
and Gleanings in Bee-Culture.....	2.00.....	1.75
Bee-Keepers' Guide.....	1.50.....	1.40
Bee-Keepers' Review.....	2.00.....	1.75
The Apiculturist.....	1.75.....	1.65
Canadian Bee Journal.....	1.75.....	1.65
American Bee-Keeper.....	1.50.....	1.40
The 7 above-named papers	5.00
and Langstroth Revised (Dadant)	3.00.....	2.75
Cook's Manual (1887 edition)	2.25.....	2.00
Quinby's New Bee-Keeping	2.50.....	2.25
Doolittle on Queen-Rearing	2.00.....	1.75
Bees and Honey (Newman)	2.00.....	1.75
Binder for Am. Bee Journal	1.60.....	1.50
Dzierzon's Bee-Book (cloth)	3.00.....	2.00
Root's A B C of Bee-Culture	2.25.....	2.10
Farmer's Account Book	4.00.....	2.20
Western World Guide	1.50.....	1.30
Heddon's book, "Success,"	1.50.....	1.40
A Year Among the Bees	1.50.....	1.35
Convention Hand-Book	1.50.....	1.30
Weekly Inter-Ocean	2.00.....	1.75
Toronto Globe (weekly)	2.00.....	1.70
History of National Society	1.50.....	1.25
American Poultry Journal	2.25.....	1.50
The Lever (Tempérance)	2.00.....	1.75
Orange Judd Farmer	2.00.....	1.75
Farm, Field and Stockman	2.00.....	1.75
Prairie Farmer	2.00.....	1.75
Illustrated Home Journal	1.50.....	1.35
American Garden	2.50.....	2.00
Rural New Yorker	2.50.....	2.00
Nebraska Bee-Keeper	1.50.....	1.35

Do not send to us for sample copies of any other papers. Send for such to the publishers of the papers you want.

ILLUSTRATIONS.

Southwestern Wisconsin Association.....	41
American basswood, or linden.....	375
Apiary of William Stolley.....	17
Automatic swarm-hive.....	479
Beeson's section-press.....	702
Bee-rancher's home.....	441
Buckwheat blossom.....	703
Bull, Theodore S.....	803
Coiled wire queen-cage and feeder.....	703
Dayton's queen restrictor.....	609
Extractor baskets.....	442
Frames—first position, 631; second position.....	640
Green, James A.....	635
Harbison hive.....	440
Hive and drone-trap.....	665, 700
Hubbard section-press.....	280
Lilliputian city near Santa Barbara.....	443
Neck-yoke hive-carrier.....	734
Queen-cell protector.....	704
Queen-cell protector and cage.....	702
Section-hook.....	829
Siphon.....	610
Stone honey-house.....	445
Twin-oaks apiary.....	439
Perforated sinc.....	762
Porter Spring bee-escape.....	771

The Convention Hand-Book is very convenient at Bee-Conventions. It contains a simple Manual of Parliamentary Law and Rules of Order for Local Bee-Conventions; Constitution and By-Laws for a Local Society; Programme for a Convention, with Subjects for Discussion. In addition to this, there are about 50 blank pages, to make notes upon, or to write out questions, as they may come to mind. They are nicely bound in cloth, and are of the right size for the pocket. We will present a copy for one new subscription to the *BEE JOURNAL* (with \$1.00 to pay for the same), or 2 subscribers to the *HOME JOURNAL* may be sent instead of one for the *BEE JOURNAL*.

Clubs of 5 New Subscriptions for \$4.00 to any addresses. Ten for \$7.50.



ADVERTISING RATES.

20 cents per line of Space, each insertion.

No Advertisement inserted for less than \$1.00.

A line of this type will admit about eight words.
ONE INCH will contain TWELVE lines.Editorial Notices, 50 cents per line.
Special Notices, 30 cents per line.Transient Advertisements must be paid for
IN ADVANCE.

DISCOUNTS:

On 10 lines, or more, 4 times, 10%; 8 times, 15%; 13 times, 20%; 26 times, 30%; 52 times, 40%.

On 20 lines, or more, 4 times, 15%; 8 times, 20%; 13 times, 25%; 26 times, 40%; 52 times, 50%.

On 30 lines, or more, 4 times, 20%; 8 times, 25%; 13 times, 30%; 26 times, 50%; 52 times, 60%.

On larger Advertisements, discounts will be stated, upon application.

Advertisements intended for next week
must reach this office by Saturday of this week.ALFRED H. NEWMAN,
BUSINESS MANAGER.

Special Notices.

Subscribers who do not receive their papers promptly, should notify us at once.

Send us one new subscription, with \$1.00, and we will present you with a nice Pocket Dictionary.

The date on the wrapper-label of this paper indicates the end of the month to which you have paid. If that is past, please send us a dollar to pay for another year.

Systematic work in the Apiary will pay. Use the Apiary Register. It costs:

For 50 colonies (120 pages)	\$1 00
" 100 colonies (220 pages)	1 25
" 200 colonies (420 pages)	1 50

As there is another firm of "Newman & Son" in this city, our letters sometimes get mixed. Please write *American Bee Journal* on the corner of your envelopes to save confusion and delay.

When Writing a letter be sure to sign it. Too often we get a letter with the name of the post-office, but no County or State. One such came recently, and we looked into the Postal Guide and found there were places by that name in 13 States. That order for goods will have to wait until another letter comes to give the proper address. Be sure to stamp your letter, or it may go to the dead letter office.

The Nebraska State Fair will be held at Lincoln from Sept. 4 to 11, 1891. Mr. E. Whitcomb, of Friend, Neb., is the Superintendent. Apiarian premiums amount to \$237.50.

The Honey-Bee: Its Natural History, Anatomy, and Physiology. By T. W. Cowan, editor of the *British Bee Journal*, illustrated with 72 figures and 136 illustrations. \$1.00. For sale at this office.

A Hummer—that is what *Field and Farm* calls the AMERICAN BEE JOURNAL.

Have your honey extractor, pails, cans and kegs ready for the honey flow?

We Club the American Bee Journal and the Illustrated Home Journal, one year for \$1.35. Both of these and Gleanings in Bee Culture, for one year, for \$2.15.

The sewing machine I got of you still gives excellent satisfaction—W. J. PATTERSON, Sullivan, Ills.

Convention Notices.

The Rock River Bee-Keepers' Association will meet at Sterling, Ills., on Thursday, Aug. 6, 1891.
J. M. BURKH, Sec., Morrison, Ills.

The ninth annual meeting of the Susquehanna County, Bee-Keepers' Association will be held on Thursday, Sept. 3, at South Montrose, Pa.
H. M. SEELEY, Sec., Harford, Pa.

If you have a desire to know how to have Queens fertilized in upper stories, while the old Queen is still laying below—how you may safely introduce any Queen, at any time of the year when bees can fly—all about the different races of bees—all about shipping Queens, queen-cages, candy for queen-cages, etc.—all about forming nuclei, multiplying or uniting bees, or weak colonies, etc.; or, in fact, everything about the queen-business which you may want to know, send for "Doolittle's Scientific Queen-Rearing;" a book of 170 pages, which is nicely bound in cloth, and is as interesting as a story. Price, \$1.00. For sale at this office.

Supply Dealers should write to us for wholesale terms and cut for Hastings' Perfection Feeders.

Red Labels are quite attractive for Pails which hold from 1 to 10 lbs. of honey. Price, \$1.00 per hundred, with name and address printed. Sample free.

A Nice Pocket Dictionary will be given as a premium for only one new subscriber to this JOURNAL, with \$1.00. It is a splendid little Dictionary—just right for the pocket. Price, 25 cents.

Please send us the names of your neighbors who keep bees, and we will send them sample copies of the BEE JOURNAL. Then please call upon them and get them to subscribe with you.

Binders made especially for the BEE JOURNAL for 1891 are now ready for delivery, at 50 cents each, including postage. Be sure to use a Binder to keep your numbers of 1890 for reference. Binders for 1890 only cost 60 cents, and it will pay you to use them, if you do not get the volumes otherwise bound.

When talking about Bees to your friend or neighbor, you will oblige us by commanding the BEE JOURNAL to him, and taking his subscription to send with your renewal. For this work we will present you with a copy of the Convention Hand-Book, by mail, postpaid. It sells at 50 cents.

It is a Prize in Itself.—I have just seen the ILLUSTRATED HOME JOURNAL for June, with the Rebus and offer of prizes for its solution. As the paper, at 50 cents a year, is a prize in itself for the amount, I take pleasure in enclosing it, and if my answer to the Rebus is correct, you can place me as a contestant for the prize. H. E. LAING.

Chicago, Ills.

The Union or Family Scale has been received, and I am much pleased with it. W. H. KIMBALL.

Davenport, Iowa.

Supply Dealers desiring to sell our book, "Bees and Honey," should write for terms.

We send both the Home Journal and Bee Journal for one year, for \$1.35.

Very Well Pleased.—The Sewing Machine and Scales are received in good order, and I am well pleased with them. They do good work. The sewing machine is ornamental as well as useful. The scales are very handy for family use.—G. RUFF, Burlington, Iowa.

Bee-Keeping for Profit, by Dr. G. L. Tinker, is a new 50-page pamphlet, which details fully the author's new system of bee-management in producing comb and extracted-honey, and the construction of the hive best adapted to it—his "Nonpareil." The book can be had at this office for 25c.

Calvert's No. 1 Phenol, mentioned in Cheshire's Pamphlet on pages 16 and 17, as a cure for foul-brood, can be procured at this office at 25 cents per ounce, by express.

HONEY AND BEESWAX MARKET.

NEW YORK, June 19.—New crop of Southern honey is now arriving freely. We quote: Extracted, 75@80c; orange blossom, 7@7½c; California, 7@7½c. Beeswax scarce at 28@30c.

HILDRETH BROS. & SEGELENK, 28-30 West Broadway.

KANSAS CITY, June 20.—Very little choice white 1-lb. comb-honey on the market. Comb, 1-lb., 14@15c; 2-lb., 10@12c. Extracted, 6@6½c. Beeswax, 25c.

CLEMONS, MASON & CO., Cor. 4th and Walnut Sts.

CINCINNATI, June 20.—Trade good in extracted-honey, with plenty of the new crop in market. New comb-honey is plentiful. We quote: Choice comb, 12@14c. Extracted, 6@8c. Beeswax is in good supply and fair demand at 25@28c for good to choice yellow.

C. F. MUTH & SON, Corner Freeman & Central Aves.

CHICAGO, June 20.—Demand for comb and extracted honey not very active. We quote: Comb, 12@17c; extracted, 7@8c. Beeswax, 39c.

S. T. FISH & CO., 189 S. Water St.

KANSAS CITY, June 20.—The demand for honey is very light; supply fair, at 12@14c; extracted, 5@7c. The demand for beeswax is good, at 25@27c; supply light.

HAMBLIN & BEARSS, 514 Walnut St.

CHICAGO, June 20.—Not any desirable comb-honey in market. A good article would sell readily at 17c. Extracted is steady at 7@8c for best quality. Beeswax, 28c.

R. A. BURNETT, 161 S. Water St.

BOSTON, June 19.—No change in prices of honey; sales a little slow, on account of extremely low price of maple sugar. White, 1-lb. comb, 18@19c; fair to good, 14@18c; 2-lb. sections, 16@17c. Extracted, selling at 7½@8½c. No beeswax on hand.

BLAKE & RIPLEY, 57 Chatham St.

ALBANY, N. Y., June 19.—Honey market is slow, with little call for comb-honey, as the weather is hot. Extracted, quiet and steady, at 5@8c. Beeswax, in demand at 28c.

H. R. WRIGHT, 326-328 Broadway.

NEW YORK, June 19.—No comb-honey in the market. Extracted—demand light, except for Southern, which would sell easily at 75@80c per gallon for common, and 7½@8c for Florida. Beeswax scarce and firm at 29c.

F. G. STROHMEYER & CO., 122 Water St.

MILWAUKEE, June 20.—Supply of choice comb-honey is very small, and shipments will find a good market. We quote: Choice, 1-lb. sections, 18@20c; common, 10@16c. Extracted, white, in barrels and kegs, 7½@8½c; in tin, 8½@9c. Dark or amber, 6@7c. Beeswax, 28@30c. A. V. BISHOP, 142 W. Water St.

SAN FRANCISCO, June 17.—Market almost bare of honey. We quote: Extracted, 5½@6½c. Comb-honey, not enough in market to be quotable. Beeswax scarce; demand fair, at 26@27c.

SCHACHT, LEMCKE & STEINER, 16-18 Drum St.

CHICAGO, June 20.—No choice comb-honey in market. Fancy stock would bring a good price. Beeswax scarce, at 29@30c.

J. A. LAMON, 44-46 S. Water St.

DETROIT, June 20.—No comb-honey in the market. Extracted, 8@9c. Beeswax firm, at 29@30c. M. H. HUNT, Bell Branch, Mich.

Advertisements.

CARNIOLAN!

THE finest bee in the land. All Queens reared from first grade imported mothers, and are warranted purely mated: 75 cents each; six for \$4.00. Tested, \$1.50 each; six for \$7.50. Descriptive circular free. Address

A. L. LINDLEY,

JORDAN, INDIANA.

WHEN ANSWERING THIS ADVERTISEMENT, MENTION THIS JOURNAL.

SECTIONS We have about 20,000 No. 1, 1-pound Sections, which we will close out at \$5.00 per thousand. Other Supplies cheap. Address

J. W. BUCHANAN & BRO., ELDORA, IOWA.

26A2t
WHEN ANSWERING THIS ADVERTISEMENT, MENTION THIS JOURNAL.

Bee-Keepers' Supplies.

Send for illustrated price-list, free. My pamphlet, "How I Produce Comb Honey," by mail, 5 cents. GEO. E. HILTON, Fremont, Mich.

26A4t
WHEN ANSWERING THIS ADVERTISEMENT, MENTION THIS JOURNAL.

Lots of Replies.

During the year 1888, we had an advertisement running in the American Bee Journal, and we had the same in several Daily and Weekly papers, but to our surprise we received more than double the number of responses from the advertisement in the American Bee Journal, than from all our others combined.

The fact that we are still receiving letters referring to our advertisement in the Bee Journal, shows that it is preserved and read long after it is received. Newspapers are read and thrown aside and that ends it, but the Bee Journal is preserved, and the advertisements are often noticed and bring responses long after they appeared in it.

We regard the American Bee Journal as a first-class advertising medium.

Cedar Rapids High-Speed Engine Co.,
HENRY RICKEL, President.

Wants or Exchanges.

Under this heading, Notices of 5 lines, or less, will be inserted at 10 cents per line, for each insertion, when specially ordered into this Department. If over 5 lines, the additional lines will cost 20 cents each.

WANTED—To sell my apiary of 100 colonies of Italian bees, with fixtures, honey-crop, supplies and everything; in a never-failing locality; at a bargain if bought soon. Address LOUIS WERNER, Edwardsville, Ills.

25A2t

Advertisements.

PETRIE IMPROVED AUTOMATIC SWARM - HIVE. Thoroughly tested and guaranteed to hive every swarm that passes through it. Sample mailed for 50c. **N. C. PETRIE, Cherry Valley, O.**

25A5t

Mention the American Bee Journal.

\$2.75 per 1,000 for No. 1, one-piece Sections; No. 2, \$1.50. Two-story dovetailed Hives, complete, \$1.40 each. Plain Hives, in flat, 55 cents, as far as the lot will go. 25A3t **W.M. HAASE, Bear Creek, Wis.**

Mention the American Bee Journal.

TEXAS ITALIAN QUEENS, from imported mother. Untested, \$1; Tested, \$1.50; Selected Tested, \$2.50. Safe arrival guaranteed. Money orders payable in Richmond, Tex. **B. F. STUART, Foster, Tex.**

21A8t

Mention the American Bee Journal.

J. F. WOOD is now ready to ship those WARRANTED QUEENS, the same as gave such good satisfaction last season. See last week's BEE JOURNAL for price. Send for circular, telling how to be successful in introducing. 24Etf **J. F. WOOD, North Prescott, Mass.**

Mention the American Bee Journal.

SECTION PRESS.



PATENTED JULY 12, 1887.

We are now prepared to furnish Wakeman & Crocker's PRESS for putting together One-Piece Sections—at wholesale and retail. Price, \$2.00, by express. By the dozen—rate given upon application.

THOMAS G. NEWMAN & SON,
246 East Madison Street, - CHICAGO, ILL.

READ

What A. I. Root says about my

Five-Banded Golden Italian Bees:

"They are ABOUT THE YELLOWEST WE EVER SAW. For any who want fancy bees, these will be the bees." One Queen by mail, \$1.00. **J. F. MICHAEL, German, Darke Co., O.**

23A4t

Advanced Bee-Culture:

It is to take the place of my other book, **The Production of Comb-Honey**, yet the price will be only 50 cents. The book is already partly printed, and will probably be out sometime in April or May. If any of the friends would like to "help me along" in meeting the expenses of getting out the book, they can do so by sending their orders in advance. Such orders will be most thankfully received, and filled the very day the book is out. I will send **The Review** one year and the book for \$1.25. **The Review** will be sent on receipt of order (I have plenty of back numbers to send it from the beginning of the year) and the book as soon as it is out. Stamps taken, either United States or Canadian.

SAMPLE OF THE REVIEW, FREE.

16Etf

WHEN ANSWERING THIS ADVERTISEMENT, MENTION THIS JOURNAL.

Positively by Return Mail

FTER June 20, we shall be prepared to ship our fine Golden Carniolan and Golden Italian Queens by return mail. Prices of Italian Queens:

Warranted.	Tested.	Select Tested.
1 Queen .. \$1.25	1 Queen .. \$2.00	1 Queen .. \$3.00
2 Queens .. 2.25	2 Queens .. 3.75	2 Queens .. 5.50
6 Queens .. 6.50	6 Queens .. 10.00	6 Queens .. 15.00
12 Queens .. 12.00	12 Queens .. 19.00	12 Queens .. 25.40

Golden Carniolan Queens, each, \$2.00.

If you would rather see these Queens before paying for them, you can do so. Safe arrival and satisfaction promised in all cases.

HENRY ALLEY, Wenham, Mass.
25Atf

Mention the American Bee Journal.

Scientific Queen-Rearing

AS PRACTICALLY APPLIED;

Being a Method by which the very best of Queen-Bees are reared in perfect accord with Nature's Way; by

G. M. DOOLITTLE.

In this book the author details the results of his Experiments in Rearing Queen-Bees for the past four or five years, and is the first to present his discoveries to the World.

Bound in Cloth—176 pages—Price, \$1.00, postpaid; or, it will be Clubbed with the American Bee Journal one year, for \$1.75; with the Illustrated Home Journal, for \$1.25; or the two Journals and the Book for \$2.00.

THOMAS G. NEWMAN & SON,
246 East Madison Street, - CHICAGO, ILL

For Albino and Golden Italian Queens,

SEND TO

A. L. KILDOW, SHEFFIELD, ILL.

1 Untested Albino, \$1.00; 6 for	\$5.00
1 Tested Albino, June and July, \$1.75; August and September	1.50
1 Select Tested Albino, Aug. and Sept.	2.50
1 Untested Italian, \$1.00; July to Sept.75
1 Tested Italian, June and July, \$1.50; August and September	1.25
1 Select Tested Italian, June, \$2.50; after June	2.00
Send for Catalogue.	14Etf

Mention the American Bee Journal.

Send 50 Cents For my Book, entitled—"A Year Among the Bees," 114 pages, cloth bound. Address

DR. G. C. MILLER,
20Atf MARENGO, ILL.

Mention the American Bee Journal.

ITS METHODS AND MANAGEMENT.

I am now engaged in writing and printing a book that is to bear this title.

Production of Comb-Honey, which will not be republished. Although the new book will contain at least five or six times as much matter as **The Production of Comb-Honey**, yet the price will be only 50 cents. The book is already partly printed, and will probably be out sometime in April or May. If any of the friends would like to "help me along" in meeting the expenses of getting out the book, they can do so by sending their orders in advance. Such orders will be most thankfully received, and filled the very day the book is out. I will send **The Review** one year and the book for \$1.25. **The Review** will be sent on receipt of order (I have plenty of back numbers to send it from the beginning of the year) and the book as soon as it is out. Stamps taken, either United States or Canadian.

W. Z. HUTCHINSON, Flint, Mich.

